

IV. AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An optical receptacle for being attached to a printed board and to which an optical plug can be connected comprising:

a tubular main housing; a socket housing which is inserted and attached to the main housing;

elastic locking parts, which extend from an outer peripheral surface of the tubular main housing, locking into the printed board; and

a locking slotted pin, which is mechanically integral with the socket housing and extends from an outer peripheral surface of the socket housing, locking into the printed board,

wherein the locking slotted pin provides an electrical connection between the socket housing and the printed board.

2. (Previously Presented) The optical receptacle according to claim 1, wherein the main housing comprises a connection opening part into which the optical plug is inserted, and

an elastic claw extending towards the connection opening part inside the main housing, and wherein the elastic claw holds the optical plug within the main housing by engaging with the optical plug inserted from the connection opening.

3. (Previously Presented) The optical receptacle according to claim 1 or 2, wherein locking holes, into which the elastic locking parts of the main housing and the locking slotted pin of the socket housing are respectively inserted, are formed on the printed board.

4. (Previously Presented) The optical receptacle according to claim 1 or 2, wherein the socket housing is capable of storing optical elements, and made of synthetic resin material containing conductive filler so as to provide an electrical connection between the optical elements and printed board.

5. (Original) The optical receptacle according to claim 4, wherein the conductive filler is a carbon filler.

6. (Previously Presented) The optical receptacle according to claim 3, wherein an elastic locking part has a first elastic locking part and a second elastic locking part,

wherein the first elastic locking part and the second elastic locking part respectively comprise a main body extending straight from the main housing and a locking member which extends from the main body so as to be engaged with a locking hole of the printed board, and

wherein the locking members are positioned so as to face each other.

7. (Previously Presented) The optical receptacle according to claim 3, wherein an elastic locking part has a first elastic locking part and a second elastic locking part, wherein the first elastic locking part and the second elastic locking part respectively comprise a main body extending straight from the main housing and a locking member which extends from the main body so as to be engaged with a locking hole of the printed board, and

wherein locking members are positioned so as to oppositely face each other.

8. (Previously Presented) The optical receptacle according to claim 6, wherein a first line including a plurality of first elastic locking parts and a second line including a plurality of second elastic locking parts are aligned in parallel.

9. (Previously Presented) The optical receptacle according to claim 3, wherein the socket housing is capable of storing optical elements and made of synthetic resin material containing conductive filler so as to provide an electrical connection between the optical elements and the printed board.

10. (Previously Presented) The optical receptacle according to claim 4, wherein an elastic locking part has a first elastic locking part and a second elastic locking part,

wherein the first elastic locking part and the second elastic locking part respectively comprise a main body extending straight from the main housing and a locking member which extends from the main body so as to be engaged with a locking hole of the printed board, and

wherein locking members are positioned so as to face each other.

11. (Previously Presented) The optical receptacle according to claim 5, wherein an elastic locking part has a first elastic locking part and a second elastic locking part, wherein the first elastic locking part and the second elastic locking part respectively comprise a main body extending straight from the main housing and a locking member which extends from the main body so as to be engaged with a locking hole of the printed board, and

wherein locking members are positioned so as to face each other.

12. (Previously Presented) The optical receptacle according to claim 4, wherein an elastic locking part has a first elastic locking part and a second elastic locking part,

wherein the first elastic locking part and the second elastic locking part respectively comprise a main body extending straight from the main housing and a locking member which extends from the main body so as to be engaged with a locking hole of the printed board; and

wherein locking members are positioned so as to oppositely face each other.

13. (Previously Presented) The optical receptacle according to claim 5, wherein an elastic locking part has a first elastic locking part and a second elastic locking part,

wherein the first elastic locking part and the second elastic locking part respectively comprise a main body extending straight from the main housing and a locking member which extends from the main body so as to be engaged with a locking hole of the printed board; and

wherein locking members are so as to oppositely face each other.

14. (Canceled)

15. (Previously Presented) The optical receptacle according to claim 9, wherein the conductive filler is a carbon filler.

16. (Previously Presented) The optical receptacle according to claim 9, wherein an elastic locking part has a first elastic locking part and a second elastic locking part,

wherein the first elastic locking part and the second elastic locking part respectively comprise a main body extending straight from the main housing and a locking member which projects from the main body so as to be engaged with a locking hole of the printed board, and

wherein locking members are positioned so as to face each other.

17. (Previously Presented) The optical receptacle according to claim 15, wherein an elastic locking part has a first elastic locking part and a second elastic locking part,

wherein the first elastic locking part and the second elastic locking part respectively comprise a main body extending straight from the main housing and a locking member which projects from the main body so as to be engaged with a locking hole of the printed board, and

wherein locking members are positioned so as to face each other.

18. (Previously Presented) The optical receptacle according to claim 9, wherein an elastic locking part has a first elastic locking part and a second elastic

locking part,

wherein the first elastic locking part and the second elastic locking part respectively comprise a main body extending straight from the main housing and a locking member which projects from the main body so as to be engaged with a locking hole of the printed board, and

wherein locking members are positioned so as to oppositely face each other.

19. (Previously Presented) The optical receptacle according to claim 15, wherein an elastic locking part has a first elastic locking part and a second elastic locking part,

wherein the first elastic locking part and the second elastic locking part respectively comprise a main body extending straight from the main housing and a locking member which projects from the main body so as to be engaged with a locking hole of the printed board, and

wherein locking members are positioned so as to oppositely face each other.

20. (New) An optical receptacle, comprising:

a tubular main housing extending along a longitudinal axis and having a passageway extending longitudinally therethrough, the tubular main housing having a partition, at least one cylindrical convex part, an elastic claw, two pairs of opposing locking parts and a photoelectric support member, the partition disposed inside the passageway extending perpendicularly relative to the longitudinal axis to divide the passageway into a connection opening part and a joint opening part, the at least one cylindrical convex part connected to the partition, projecting longitudinally into the connection opening part and defining a photoconductor entrance path in communication with and between the connection opening part and the joint opening part, the elastic claw disposed in the connection opening part and connected to and projecting generally longitudinally from the partition, the tubular main housing formed with an opposing pair of locking holes and a slot, the opposing pair of locking holes extending transversely relative to the longitudinal axis and being in communication

with the joint opening part, the slot extending longitudinally and in communication with the joint opening part, each one of the locking parts connected exteriorly of the tubular main housing and projecting perpendicularly therefrom relative to the longitudinal axis and arranged in plan view relative to one another in a rectangular configuration with one pair of the opposed locking parts straddling the slot, the photoelectric support member connected to the partition, extending transversely relative to the longitudinal axis and disposed in the joint opening part adjacent the slot; and

a socket housing extending along the longitudinal axis and including a pair of side walls, a main wall connected to and disposed between the pair of side walls and a slotted locking pin, the slotted locking pin connected to the main wall, extending perpendicularly relative to the longitudinal axis and projecting away from the main wall, each side wall having a small locking projection attached thereto and projecting transversely and outwardly relative to the longitudinal axis, the main wall having at least one element attaching groove formed thereinto,

wherein, the joint opening part is sized to slidably receive the socket housing such that the at least one element attaching groove is generally axially aligned with and facially opposed to the photoconductive entrance path of the at least one cylindrical convex part, the slotted locking projection is received by the slot and respective ones of the small locking projections are releasably engaged with respective ones of the opposing pair of locking holes to releasably retain the socket housing and the tubular main housing together.